

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Prior Application: H. ARITA et al
Serial No. 09/290,170
Filed: April 13, 1999

Group Art Unit: 2836
Examiner: G. Fredrickson
For: ENERGY AND POWER INTERCHANGE
SYSTEM AND ITS METHOD

PRELIMINARY AMENDMENT

Commissioner of Patents
Washington, D.C. 20231

Sir:

Before examination on the merits, please amend the above-identified application as follows:

IN THE SPECIFICATION

Please amend the specification as set forth below.

Page 1, line 8, change "the energy" to --to an energy--;
line 26, change "system" to --systems--;
line 28, after "power" insert --is increasing--;
line 21, after "power" (first occurrence) insert
--,-- and change "source is remote" to --sources are remote--.

Page 2, line 10, after "necessary" insert --,--;
line 26, change "inter connection" to
--interconnection-- and after "around" insert --the--.

Page 3, line 2, before "Zaire" delete "the";
line 3, before "hydro" insert --a--;
line 9, after "interconnect" insert --a country's--.

Page 4, line 2, before "measuring" delete "a";
lines 6-7, change "path and the energy and" to
--path, and--;

line 18, before "measuring" delete "a";
line 30, before "measuring" delete "a".

Page 5, line 6, before "interconnection" delete "an";
line 27, after "rate" insert --,--.

Page 6, line 2, delete "amount";
line 8, after "quality" insert --,--;
line 17, after "path" insert --,--;
line 23, change "is provided" to --are provided--.

Page 7, line 7, before "power" delete "a" and after
"equipment" insert --,--;
line 8, before "power" delete "a";
line 15, after "energy," insert --and--;

line 25, change "hours" to --hour--, change "seasons" to --season--; and after "function," insert --and--.

Page 8, line 2, after "system" insert ---,--;

line 4, change "path and the" to --path. The--;

line 17, before "Asia" insert --the--;

line 28, after "example of" insert --a--;

line 31, after "example of" insert --a--.

Page 9, line 32, after "Asia and" insert --the--.

Page 10, line 13, change "is 236" to --are 236--;

line 14, before "227" insert --the--;

line 26, change "the shortage" to --a shortage--;

line 32, before "Vietnam" delete "the".

Page 11, line 3, after "power to" insert --these--;

line 12, change "the vast" to --a vast-- and before "sufficient" delete "a";

line 16, change "sources" to --source--;

line 18, before "following" insert --the--;

line 25, before "Antarctic" (both occurrences) insert --the--;

line 26, before "Antarctic" insert --the--;

line 29, after "GW" insert --,--;
line 33, before "direct" delete "the".
Page 12, line 1, before "Australia" insert --the--;
line 2, before "Indonesia" insert --the--;
line 5, before "Far East" insert --the-- and before
"Russia" insert --the--;
line 9, before "China" insert --the-- and before
"Far East" insert --the--;
line 20, before "efficient" delete "the";
line 23, change "made or" to --made of--.

Page 13, line 2, after "systems" insert --,--;
line 30, after "achieved" insert --,--;
line 32, before "gas" delete "the".

Page 14, line 3, change "it is" to --they are--;
line 7, change "apply a" to --applies--;
line 16, after "regions" insert --,--;
line 16, change "system" to --systems--;
line 19, change "includes interconnection" to
--include interconnections--;
line 20, change "interconnection" to
--interconnections--.

Page 15, line 3, after "adopt" insert --an--;
line 20, change "are mounted" to --is mounted--;
line 31, after "using" delete "a";
line 32, change "wave" to --waves--;
line 33, change "propagates" to --propagate--.

Page 16, line 2, before "transmission" insert --the--;
line 4, before "parameters" delete "the";
line 16, delete "an";
line 18, change "inform" to --informs--;
line 24, change "on these" to --on this--;
line 32, delete "an".

Page 17, line 4, after "electric energy" insert --,-- and
change "amount" to --amounts--;
line 7, after "pays" insert --a--;
line 12, change "measure" to --measures--;
line 13, change "administrate" to --administrates--;
line 14, change "systems are" to --systems is--;
line 16, change "receive" to --receives--;
line 19, change "transmit" to --transmits-- and
change "amount" to --amounts--;
line 28, after "power," insert --and--;
line 29, delete "an".

Page 19, line 20, after "have" delete "the".

Page 20, line 23, change "like and these" to --like, and this--.

Page 21, line 31, before "there" insert --because--.

Page 22, line 27, change "made use of" to --employed--.

Page 23, line 4, change "At 15" to --at 15;
line 5, delete "of Canada" and change "Los Angels"
to --Los Angeles--;
line 6, delete "of America";
line 8, change "made use of" to --employed-- and
change "of the" to --on the--;
line 9, change "at midnight" to --a.m.--;
line 11, before "Far East" insert --the--;
line 14, before "Asian" insert --the--;
line 16, change "from the" to --from a--;
line 17, change "reverses the daytime" to --has
reversed daytime--;
line 18, change "the midnight cheap" to --cheap
midnight--;
line 27, delete "one";

line 30, delete "condition of electricity".

Page 24, line 3, change "since" to --after--;
line 6, before "excess" delete "an";
line 24, delete "one";
line 25, after "point" insert --.---;
line 33, change "is a coal" to --uses coal-- and
change "plant" to --plants--.

Page 25, line 10, after "reduced" insert --,--;
line 17, change "which" to --where--;
line 18, change "developed and" to --be developed,
and--;
line 21, change "substitutes" to --substitute for--;
line 22, after "high" insert --,--;
line 29, change "respective" to --respectively-- and
change "powers are fully made use of and" to --power is fully
employed, and--.

Page 26, line 5, change "periodical" to --periodic--;
line 12, change "stop" to --stoppage--;
line 17, change "are" to --is--.

Page 27, line 4, after "minimized" insert --,--;

line 8, after "system" insert --,--;
line 16, after "equipment" insert --,--;
line 19, change "the drought" to --a drought-- and
before "El Nino" insert --the--.

Page 28, line 20, after "flown" insert --,--;
line 29, delete "an".

Page 29, line 1, delete "an":
line 4, change "A power" to --Power--;
line 23, change "in energy" to --to energy-- and
change "other" to --another--;
line 32, delete "an".

Page 31, line 20, delete "an";
line 21, before "microwave" delete "a";
line 26, delete "abbreviation of";
line 27, after "System" insert --,--;
line 29, change "prepare" to --prepares--.

Page 32, line 18, change "Asia" to --Asian--;
line 19, delete "a";
line 28, change "11" to --11f--.

Page 33, line 19, before "Malaysia" insert --the-- and
after "system and" insert --the--.

Page 34, line 2, before "power" delete "a";
line 3, before "power" delete "a";
line 21, delete "an";
line 30, change "23 is" to --23 are--.

Page 35, line 7, after "transacted" insert --,--;
line 16, change "122 are" to --122 is--;
line 20, change "these" to --this--.

Page 36, line 7, before "Japan" insert --the--;
line 8, change "other" to --another--;
line 9, delete "of";
line 15, change "route" to --routes--;
line 16, after "like are" insert --periodically and
frequently--;
line 18, delete "every seconds" and change "these"
to --this--.

Page 37, line 1, before "the" insert --or--.

Page 39, line 2, before "following" insert --the--;

line 5, change "sources.," to --sources,--;

line 9, change "APEC" to --APREC--.

IN THE CLAIMS

Cancel claim 1 and add new claims 19-31 as follows:

--19. A method of settling comprising the steps of transmitting electric power across a border between two countries, wherein a power generating facility handling at least a portion of power demand occurring in one of the countries is located in the one country, a power generating facility handling at least a portion of power demand occurring in the other country is located in the other country and these two countries are ruled under different laws, and settling the transmission of the power in accordance with environmental value.

--20. A settling method according to claim 19, further comprising steps of receiving electric power across said border and of settling the reception of the power by environmental value.

--21. A settling method according to claim 19, wherein said step of transmitting power includes a step of interchanging the power and said step of settling the transmission of the power includes a step of settling interchange of the power.

--22. A settling method according to claim 19, wherein the electric power is exchanged for environmental value including such as a right of carbon oxide emission.

--23. A method of settling comprising the steps of transmitting electric power across a border between two countries, wherein a power generating facility handling at least a portion of power demand occurring in one country is located in the one country, a power generating facility handling at least a portion of power demand occurring in the other country is located in the other country and these two countries are ruled under different laws, further including settling the transmission of the power by a unified currency acknowledged by at least these two countries.

--24. A settling method according to claim 23, wherein said settling carries out settlement, conclusion of a contract or an interchange control using said converted values transmitted from interconnection adjustment equipment using interchange administration equipment.

--25. A settling method according to claim 23, wherein the power generating facilities are located at countries which differ in circulating currency and convert to the preliminarily decided currency unit based on information on exchange rates and said information is transmitted by way of translating machines.

--26. A settling method according to claim 23, wherein said power generating facilities include many hydro electric power facilities, and the generated power amount is controlled such that overall fuel consumption amount is lower than a predetermined value.

--27. A settling method according to claim 23, wherein said power generating facilities comprise a system having electric power of good quality and a system having electric power of poor quality and said system is controlled such that power flow flows from said system of good electric power to said system of poor electric power.

--28. A settling method according to claim 23, wherein said power generating facilities are located in countries having at least two hours time difference and energy transmitted from said one system to said another system is controlled using demand estimation data.

--29. A settling method according to claim 23, further including providing an alternating current/direct current converter between said system and said energy path and transmitting information to control an alternating current/direct current converter over at least one of satellite communication facilities, optical communication facilities, microwave communication facilities and telephone

circuit communication facilities and said information transmission is performed with delay timers.

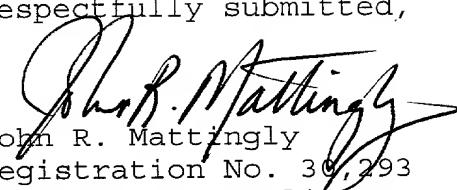
--30. A settling method according to claim 29, wherein said transmission information includes transmitting information on said power generating facilities, or information to which time information detected by a transmission time difference detector for detecting time difference for information transmission is added, or said interchanged electric energy, restriction on said interchanged electric energy, or operation information on a direct current power transmission system.

--31. A settling method according to claim 24, wherein as a consideration to said settlement, conclusion of contract or interchange control by said interchange administration equipment may be at least one of CO² emission right which concerns with CO² emissions utilities, fuel, electrical energy or money.--

REMARKS

Examination is requested.

Respectfully submitted,


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Date: December 21, 2000

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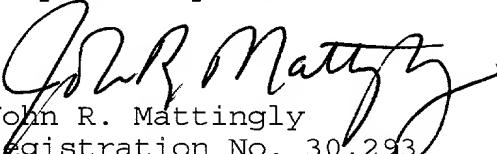
REQUEST FOR APPROVAL OF PROPOSED DRAWING CORRECTIONS

Commissioner for Patents
Washington, D.C. 20231

Sir:

The applicants request approval of the proposed drawing corrections indicated on the attached copies of Figs. 1-4, 6, 11, and 14, to correct minor informalities and to label elements in accordance with a requirement of the Examiner. These drawing corrections are the same as those requested in parent application Ser. No. 09/290,170 on November 30, 2000.

Respectfully submitted,


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FIG. 1

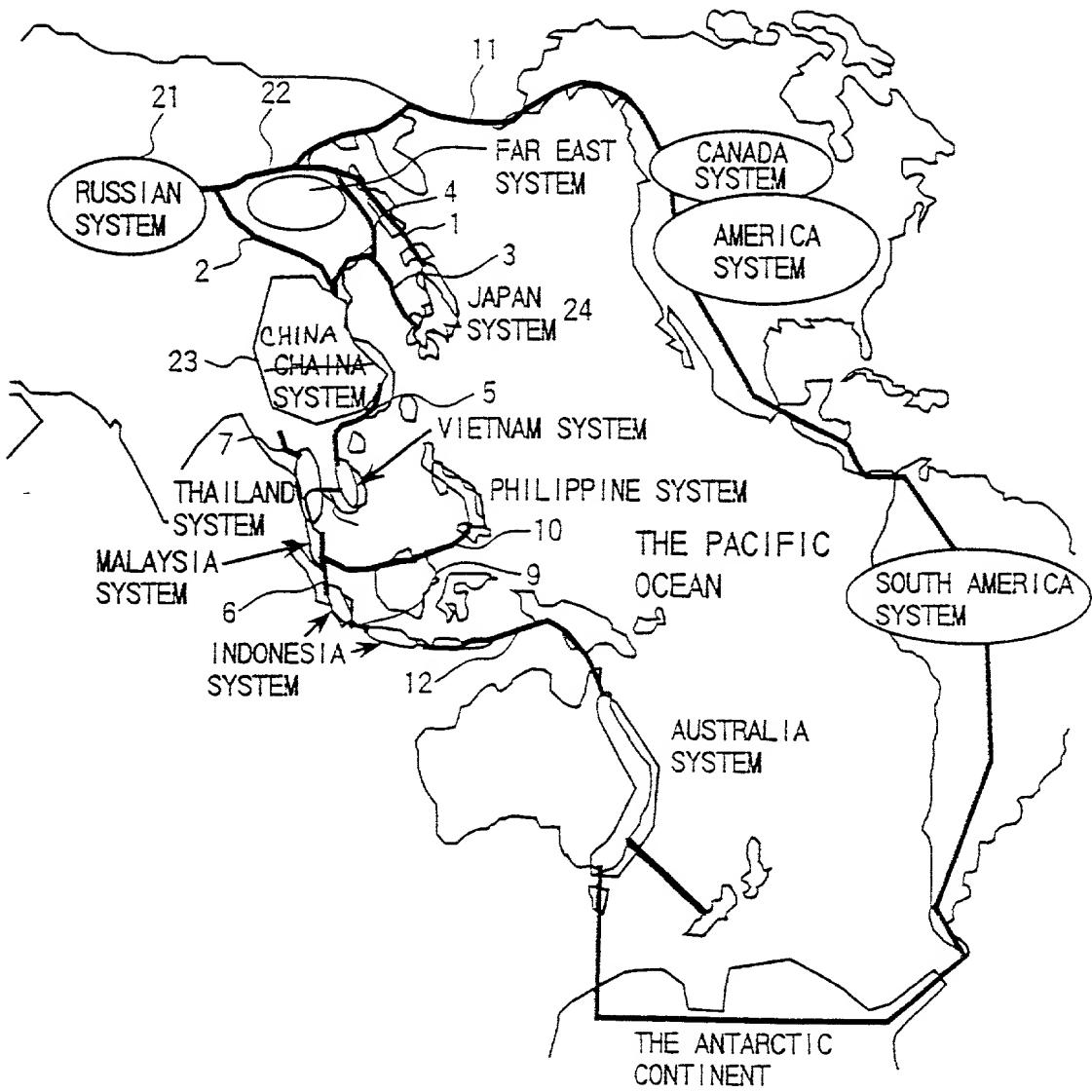


FIG.2

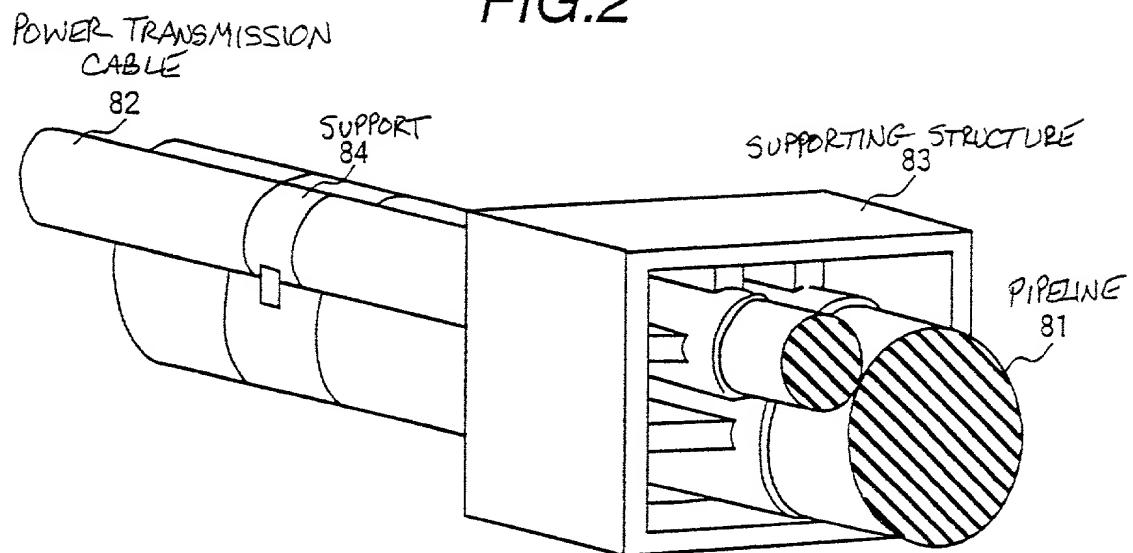


FIG.7

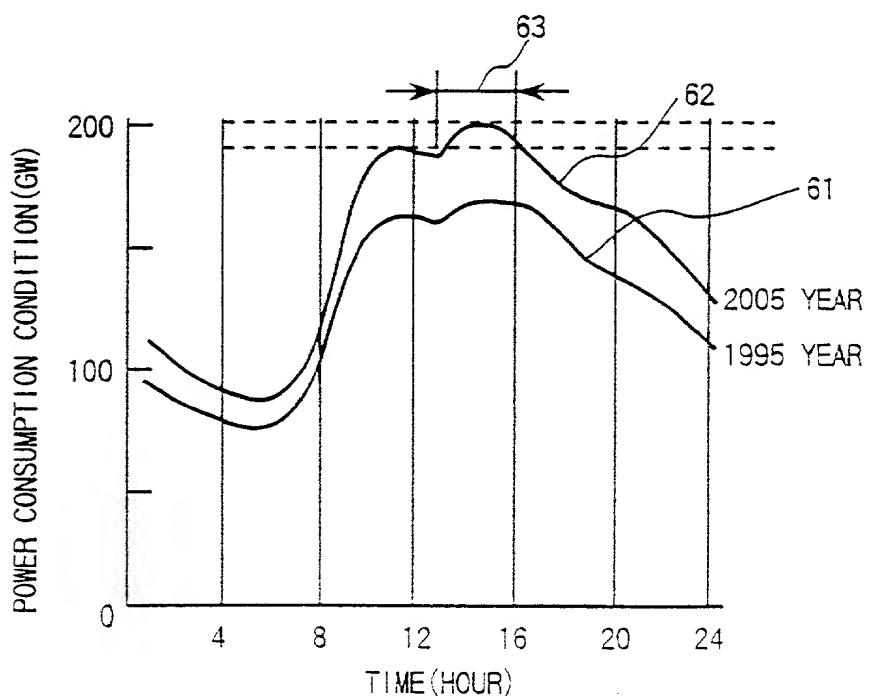


FIG.3

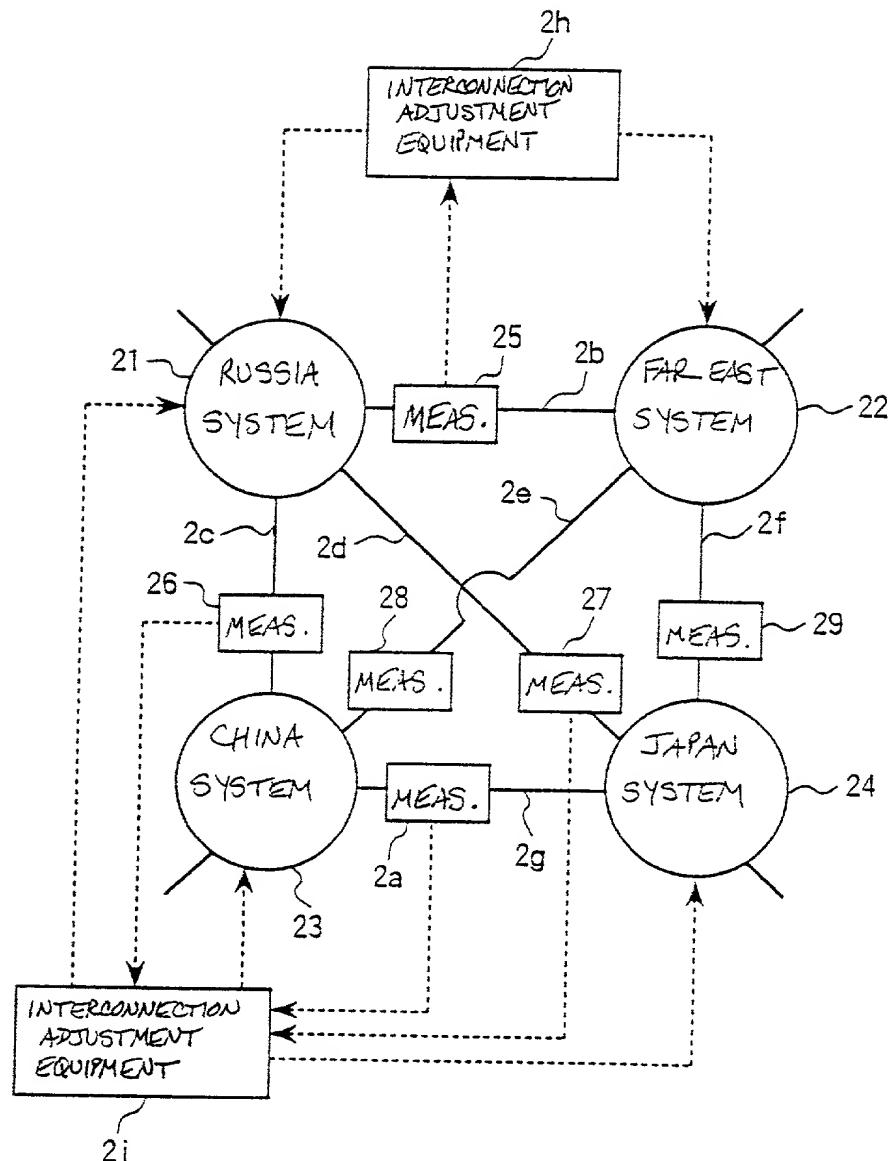


FIG.4

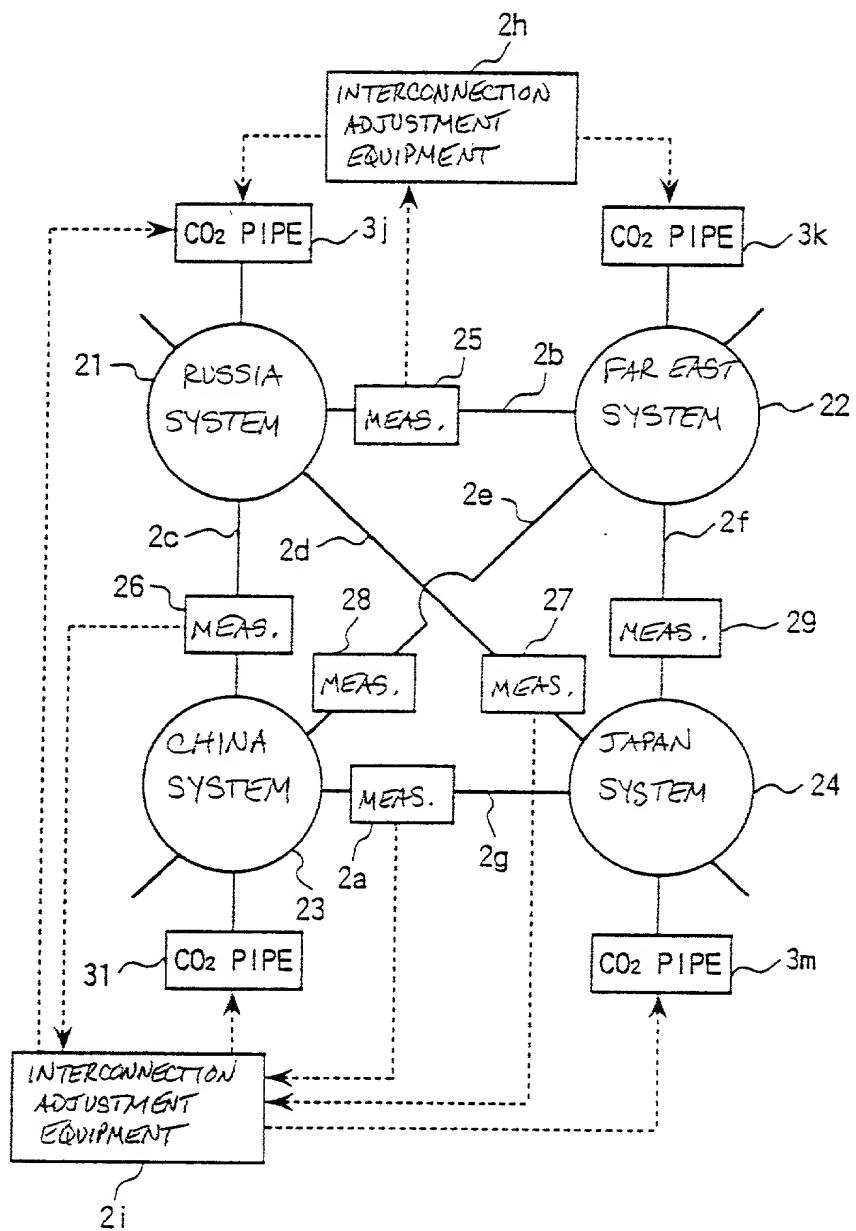
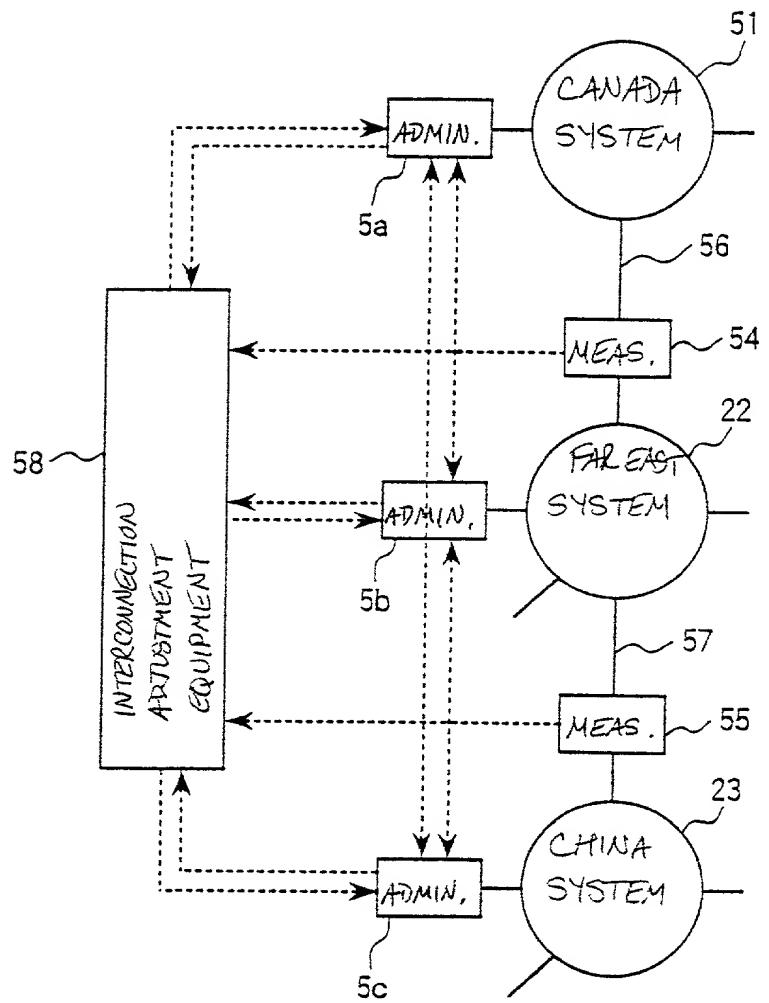


FIG.6



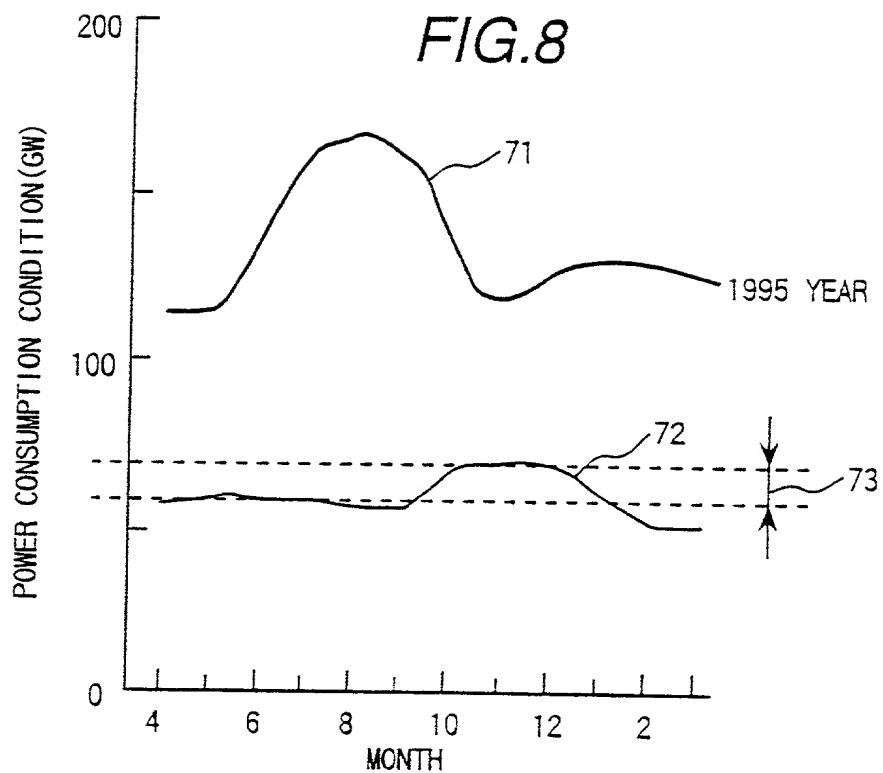
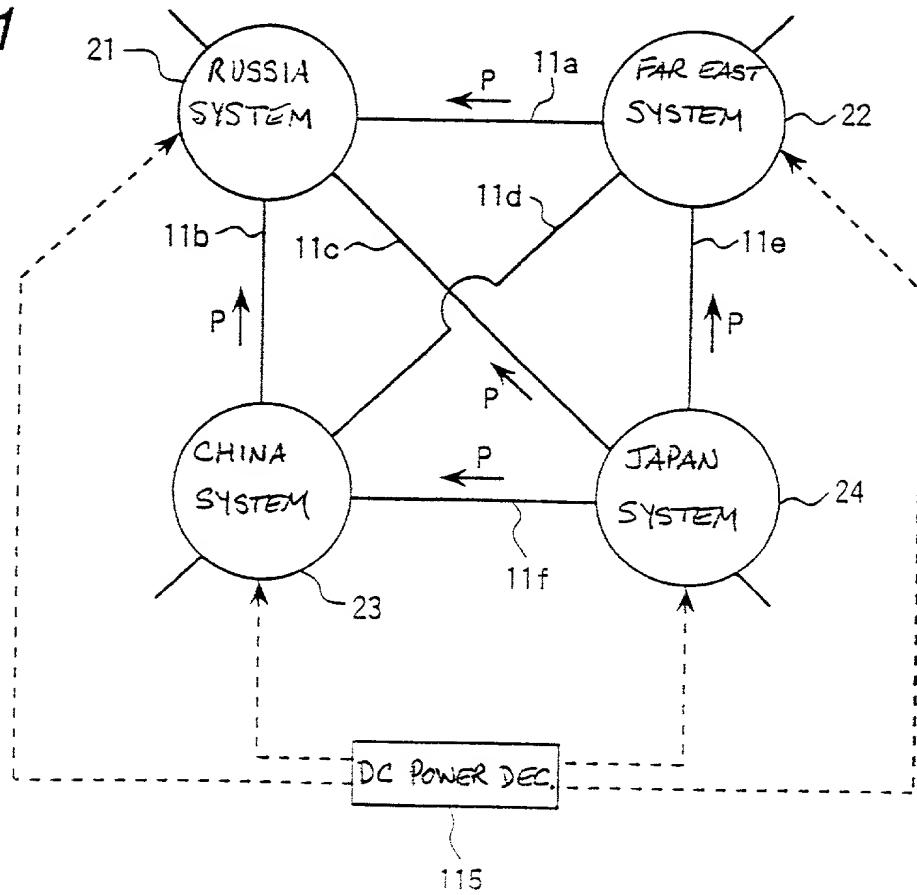
**FIG.11**

FIG.13

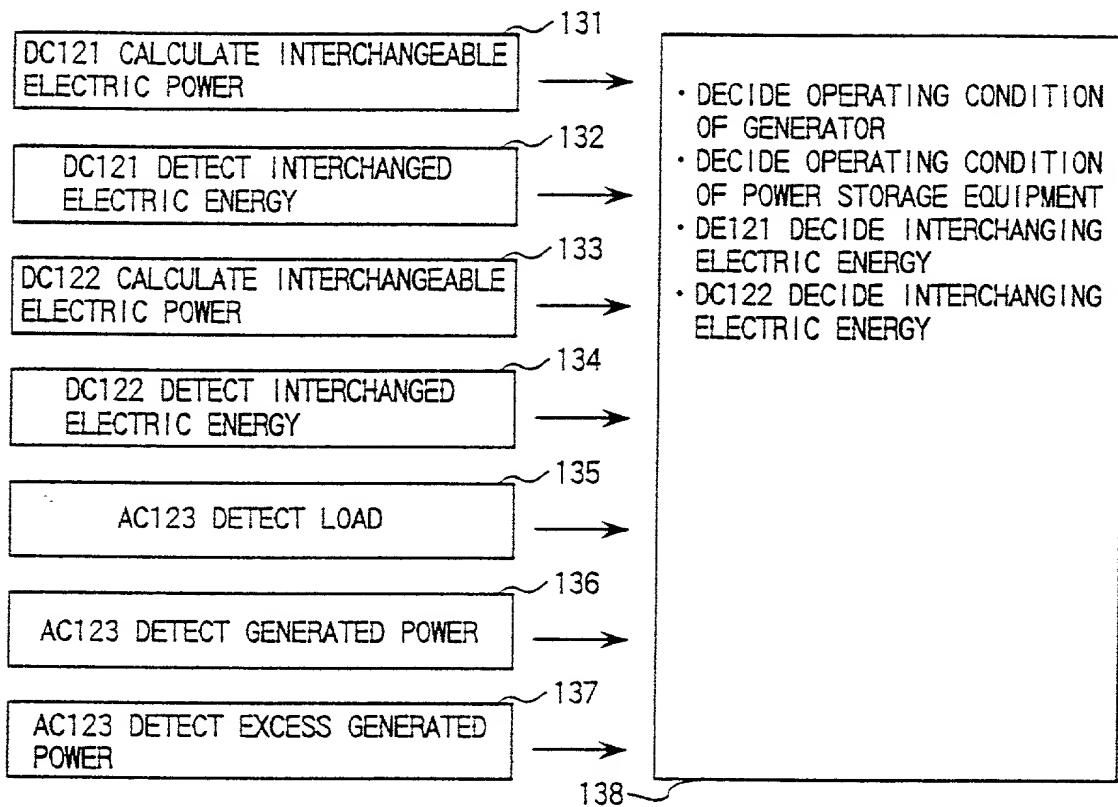


FIG.14

